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consider a matrix G of size (n + 1) x(n + 1) partitioned into a leading matrix G 11 of size n x n, G = $\begin{bmatrix} G_{11} & \mathbf{g} \\ \mathbf{h}^T & g_{n+1,n+1} \end{bmatrix}$. Now by expanding the determinant of G along its last column we see that $|G| = g_{n+1,n+1}|G_{11}| = g_{n+1,n+1} \prod_{i=1}^n g_{ii} = \prod_{i=1}^n g_{ii}$, proving by induction that the determinant of a triangular matrix is equal to the product of its diagonal elements.

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