State & Prove Buyers Theorem:
State & From State & Prove Buyers

State & From State & Prove Bu - P(M = FI P(Fi). P(MEi) Reverse CP(Gi/A) = P(Ein A) = P(Ei)P(A/Ei)
P(A) = P(Fi)P(A) Zi p(Ei) P(A/EI)

Proff $A = \lim_{i=1}^{\infty} E_i$ $A = \left(A \cap \lim_{i=1}^{\infty} E_i\right)$ $A = \lim_{i=1}^{\infty} \left(A \cap E_i\right)$ Sinu

Take prob on both side of ear
$$\mathbb{O}$$

$$P(A) = P(\mathcal{G}(A \cap Ei)) \qquad \begin{cases} A \cap Ei \text{ eve} \\ M \cdot E \end{cases}$$

$$= \mathcal{E}(P(A \cap Ei)) \qquad \begin{cases} P(UEi) = \\ = \mathcal{E}(Ei) \end{cases}$$

$$P(A) = \mathcal{E}(P(Ei) P(A \mid Ei)) \qquad \qquad Eisse \end{cases}$$

$$P(A) = \mathcal{E}(Ei) P(A \mid Ei) \qquad \qquad Eisse \end{cases}$$

$$P(E; nA) = P(A) P(E; lA)$$

$$P(E; lA) = \frac{P(E; nA)}{P(A)} = \frac{P(E; lA) P(A|E; lA)}{\frac{2}{2}P(E; lA|E; lA)}$$

$$Reverse Prob$$

$$P(E; lA) + P(E; lA) + - + P(E; lA) = 1$$