Entailment is a deduction or implication follows or is in accordance and

to derive these implications, trules of influence and logical equivalences and used to derive retalionships

Pmodus Poruns (MP)

P-10 (ib P thun 0)

P

1. Premises brom Kb

· PI: Alice is the murmy of Bob M(A, B)

-P2: Bob is the daddy of Charlic

P3: A bather is a parent

DE TR (M(x,y) -> PCXS)

P4: A mother is a parent

+ 2(M(X,y) -> P(Z))

bor any person or, ib x is a
parent are x has churren

y & Z, H

. P5: All parents have chirtren VXCPCX2-37y (cc 7,4900) Iger any physon x, is x is a parent then there exists some y such that y is the child of a · P6: 16 % hous childrens y 4 Z, then y 4 Z are siblings S(Y,Z) . P7 1 Alice married to David

man (A,D)

2. Hypotheris: S(B,C) Barre care siblings

3. Entilment Priores m (ALB) -> PI PF(B,C) -> P2

F(B,C) -> P(B) m(R,B) -> P(A)

L) P(R) -> Fy (C(A, Y)) Alice a parent has children children ar as siblings. A & B are
parents, Bob and Chartie are
children of Alice & Bob
Bob & Children aren't siblings

@ Condusion

SCB(C) 15 ontailed by KB